

# Western Concourse Phase 1 Concept Design

Northwest Arkansas National Airport

December 8, 2021



# PROJECT GOALS

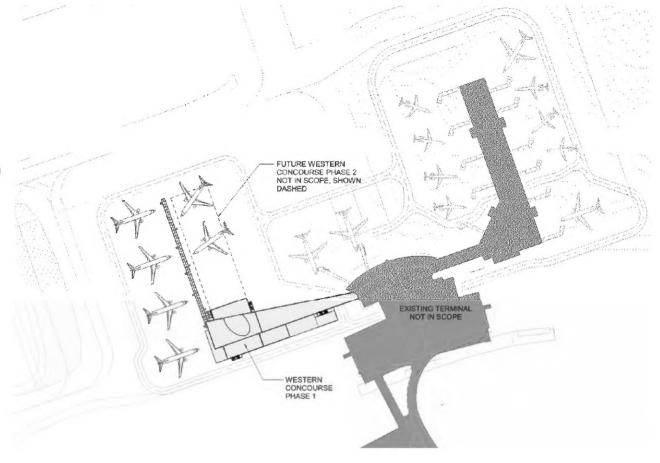
- Maximize Gate capacity at XNA.
- Provide new gates for existing and potential new low-cost carriers.
- Maintain operational use of the existing B Gates.
- Provide a passenger experience with a "sense of place."
- Meet the established budget with an efficient design.





### **SITE PLAN**

- Site Plan Overview
- Western Concourse is sited in the footprint for the future Concourse B
- New 58K SF building to have a split-level hold room concept
- Project will accommodate (5) ground loaded gates
- (1) RON parking position
- Gates B1 & B2 remain unchanged
- Building configuration allows for a VSR cut through

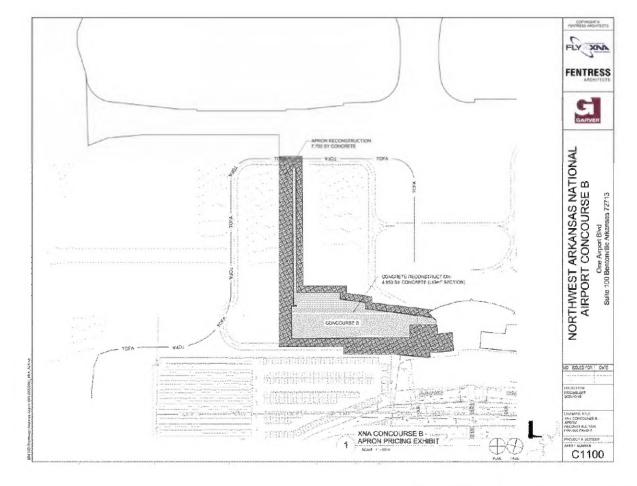






#### **CIVIL OVERVIEW**

- Design the apron reconstruction with the grades for the future Concourse B buildout in mind.
- Pavement sections will be designs for intermediate and future uses.
- Coordinate reconstruction design efforts with apron expansion design efforts for continuity.
- Additional deicing infrastructure to support additional gate locations.

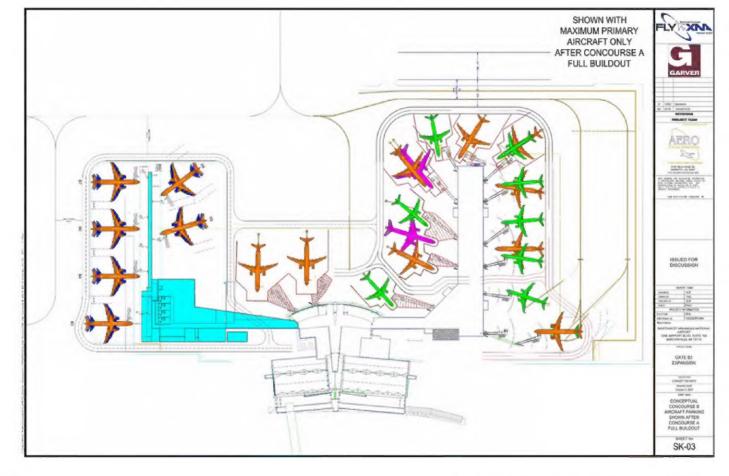






#### AIRSIDE LAYOUT

- Diagram shows proposed parking at the completion of the Western Concourse Ph 1
- Proposed A parking Separate Project
- New Facility is all Ground loaded
- Gates B1, B2 Remain in place and intact

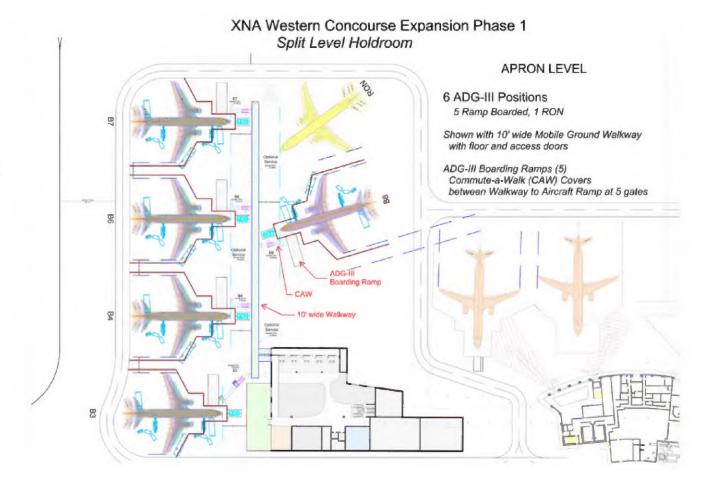






# WESTERN CONCOURSE AIRSIDE LAYOUT

- (5) Ground Load Parking Positions
- (1) RON Parking position
- (2) Existing B 1 & 2 Remain intact
- 10'-0" Covered Pedestrian Walk connects facility
- Commute-A-Walk retractable walkway to ramp
- Ramp at each parking position







#### COMMUTER WALKWAY

- 10'-0" wide covered walkway provides 2-way access
- Modular units, approx. a total length of 390 ft
- Enclosed to protection passengers from the weather
- Lighting and signage will be provided
- No Structural foundations are required, bolted directly to the concrete













# RETRACTABLE CONNECTOR

- Connector between the modular walkway and the boarding ramp.
- Protects the passengers in inclement weather.
- Basis of design: Commute-A-Walk
- Retractable and flexible units operated manually or with a powered drive unit.









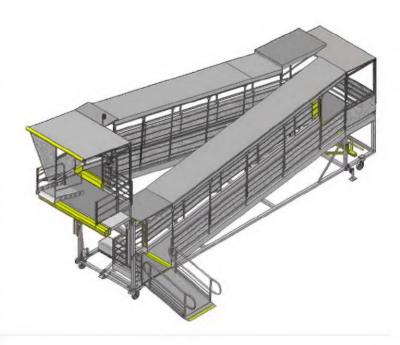


### **BOARDING RAMP**

- All passengers will access the aircraft via ramp.
- (5) Ramps for each parking position
- Sized for ADG Group III aircraft, can be sized to accommodate different aircraft











# Summary of Requirements for the Western Concourse Phase 1 – 5 Gate Facility

Program target Square Footage = 58,600 SF – 59,600 SF Concept Design Square Footage = 58,990 SF

# Level 1 - Approx. 30,344 SF

Level 1 Hold Room Lounge Boarding Area

Restrooms

Concessions/Support

**Outdoor Seating** 

Airline Support

MEP

## Level 2 - Approx. 28,646 SF

Level 2 Hold Room Lounge

Restrooms

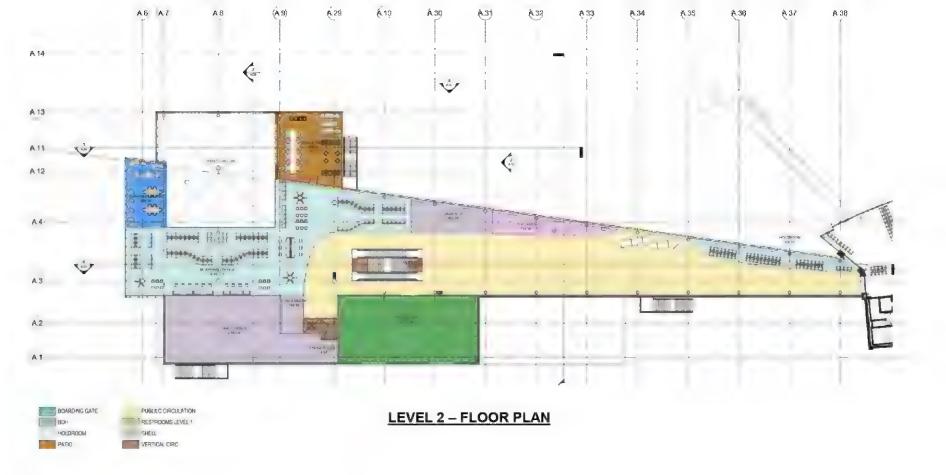
Concessions/Support

**Outdoor Seating** 

Passenger Amenities







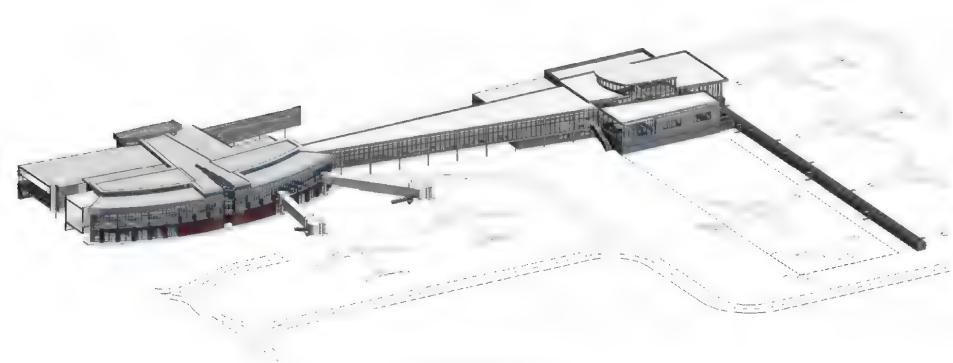








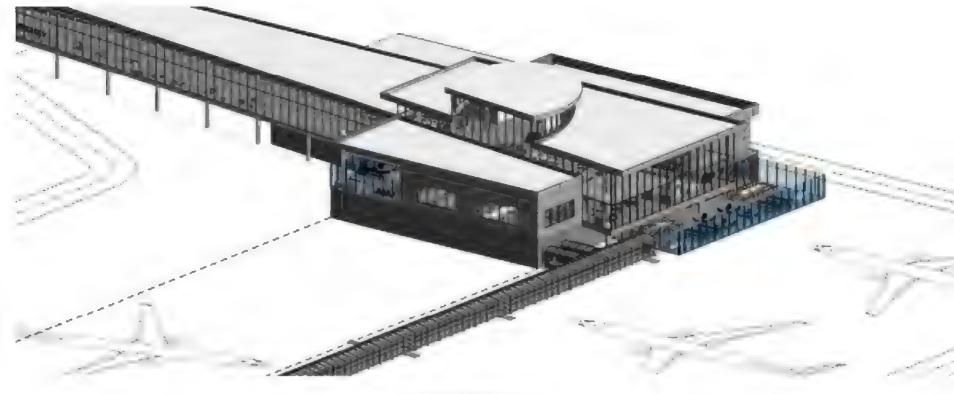




## **NORTHEAST VIEW**







## **NORTHWEST VIEW**







## **SOUTHWEST VIEW**

















































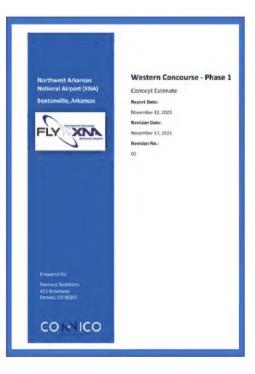












# **ESTIMATE OF COSTS**

### Construction

Estimate for the Total Cost of Construction = \$45,623,807 Includes:

- Site Civil (Excluding Apron Expansion Project)
- Airside Equipment (Passenger Walkway, Retractable connector, Ramp)
- Furniture
- Estimated General Contractor Markups

## Design

Task Order #5 proposed estimated design fee, 10% of total construction cost:

- Schematic Design 20% = \$912,476
- Design Development 35% = \$1,596,833
- Construction Documents 45% = \$2,053,071

Total estimated Design Fee: \$4,562,380







## **QUESTIONS?**



